











SPECtop SRE50

SOLVENT-FREE HIGH BUILD, EPOXY FLOOR COATING







Chemical



Resistance



Hygiene



Impact



Tensile strength

Pull Off strength

Water Absorption

expansion

Pot life

Solids content

Coefficient of thermal

VOC Content (USEPA 24)

Intercoat time (min)

Intercoat time (max)

Exposure to Foot traffic

Exposure to Chemicals

10% Lactic Acid

10% Citric Acid

10% Nitric Acid

10% Acetic Acid

5% Bleach

Petrol

Kerosene

Butanol

Skydrol

10% Ammonia

25% Nitric Acid

Oil

50% Hydrochloric Acid

Saturated Sugar Solution

Saturated Urea Solution

50% Sodium Hydroxide

50% Phosphoric Acid

Industrial Methylated Spirit

50% Sulphuric Acid

Typical system thickness

(dft, excluding NS Grains)

CHEMICAL RESISTANCE CHART

Exposure to Vehicular traffic



VOC Free Cleaning &



Colou

15.0 N/mm²

3.07 N/mm²

1.02x10⁻⁶/°C

0.01%

100%

27 g/L

12 hrs

36 hrs

1 day

3 days

7 days

400µm

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent

Excellent **Excellent**

Good

Good

Good

Good

Good

50 mins

DESCRIPTION

SpECtop SRE500 is a two-part epoxy resin system which produces a high build, hard wearing, chemically resistant floor coating. Where required SpECtop NS GRAINS may be included to produce a slip resistant surface.

TYPICAL USES

SpECtop SRE500 may be used in industrial and commercial situations to provide an abrasion resistant finish in areas subjected to traffic, chemical attack and surface water, such as:

- Car parks
- Loading bays
- Walkways
- Chemical production facilities
- Beverage production units
- Wet working area

ADVANTAGES

- Abrasion resistant
- High build and therefore requiring low maintenance
- Resistant to a wide range of chemicals (see Chemical Resistance Chart)
- Solvent free to minimise disruption
- Slip resistance to suit site conditions
- Available in a range of colours to demarcate areas and provide a light reflective floor

TECHNICAL DATA

Compressive strength 60 N/mm² @ 7 days

(BS 6319)

Flexural strength 35 N/mm² @ 7 days (BS 6319)

ENGINEERED SOLUTIONS

Typical results @ 20°C

A BARDAWIL COMPANY

Note:

 If chemical spillage occurs, immediately remove the spillage and wash down with water to prevent any attack or discolouration

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of **Spectop SRE500**.

Grit blasting is recommended to ensure the removal of all laitance, grease and oil. The resultant surface should be dry and dust free. Cracked and damaged areas must be made good with appropriate repair materials.

Priming

SpECtop SRE500 may be applied to properly prepared concrete without the use of a primer providing:

- The moisture level of the concrete is less than 75% when tested in accordance with BS8203 Annex 4.
- The wet film thickness for the first coat does not exceed 250µm. It is essential that a wet film thickness gauge is used to monitor average thickness during application.

Otherwise use **SpECtop Primer F1** or **SpECtop Primer FX** as follows:

The contents of the curing agent should be emptied into the base component and stirred with a spatula until the product appears uniform.

The mixed primer should then be applied to the prepared substrate by a stiff brush at 10-15 m²/litre.

If the primer appears to be absorbed into the surface easily, it will be necessary to apply a second coat once the initial coat is tack-free. It is essential that the primer is tack-free prior to the application of the topping. The application of **SpECtop SRE500** should commence between 8-24 hours after priming. If this period is exceeded, then the surface of the primer should be lightly abraded and a fresh priming coat applied.

Mixing

Spectop SRE500 is supplied in a two- component kit consisting of a curing agent and a pigmented base component.





Both of the components should be briefly stirred to ensure that any settlement products are fully suspended. Empty the entire contents of the curing agent into the base component. To ensure that

all material is extracted, the insides of the tins should be scraped. The curing agent and the base component should be mixed with a slow speed, heavy duty electric drill and a spiral mixing paddle for at least five minutes and until the material appears uniform in colour and consistency.

Application

The first coat of **SpECtop SRE500** is applied by a medium pile roller at a desired wet film thickness.



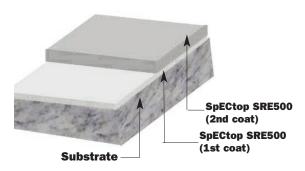
The quantity of material used per coat and the number of coats may vary dependant on the porosity of the substrate and the surface profile. If a slip resistant profile is required, the first coat is completely blinded with **SpECtop NS GRAINS**. This should be carried out while the coating is still wet.

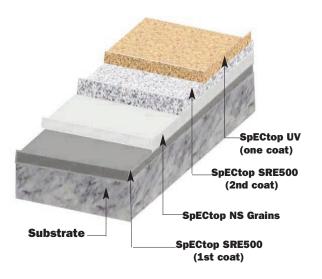
When the first coat has reached its initial cure (12 hours @ 20°C), the excess aggregate should be removed by vacuum from the surface.

The top coat is then applied again by a medium pile roller. Where a smooth finish is required, the top coat is applied as per the first coat.

For slip resistant floors the topcoat of **SpECtop SRE500** should provide a continuous film of material and also completely seal the surface of the **SpECtop NS GRAINS**. The consumption rate of materials for this type of application will be heavier for the top coat due to the increase in the surface area to be coated.

Where UV resistance is required, overcoat with **SpECtop UV**.





EQUIPMENT CLEANING

All equipment may be cleaned of uncured material using **SpECtop Cleaning Fluid**.

PACKAGING AND YIELD

SpECtop SRE500

4.5 litre and 15 litre units

@ 200µm wft: 1st coat - 5.0 m²/litre

2nd coat - 5.0 m²/litre

(smooth finish)

2nd coat - 4.0 m²/litre

(slip resistant)

SpECtop NS GRAINS 25kg bags

@ 2kg net/m²

Sizes Medium 0.4 - 0.7mm

SpECtop Primer F1

5 litre packs gives 50-75m²

SpECtop Primer FX

5_{m²}

SpECtop UV

4.5 litre and 15 litre units

@ 100 μ m dft: 10.0 m²/litre

The rates indicated are for guidance only. The consumption of material will be dependent on the porosity and the condition of the substrate.

APPLICATION TEMPERATURE RANGE

Minimum 5°C Maximum 35°C

STORAGE AND SHELF LIFE

When stored in a cool environment, in original unopened containers, the material has a shelf life of 12 months.

HEALTH AND SAFETY

Contact with skin and eyes should be avoided. It is essential that adequate ventilation is provided and that all personnel avoid inhaling the vapours produced. If working is necessary in a confined area it is strongly recommended that sealed respiratory equipment is utilised.

Eye contact

Rinse with copious amounts of clean water and seek medical attention.

Skin contact

Rinse with copious amounts of clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS

Ingestion

Seek immediate medical attention.

DO NOT INDUCE VOMITING

FLAMMABILITY

SpECtop SRE500 is non-flammable. **SpECtop Primer F1, SpECtop Primer FX, SpECtop UV** and **SpECtop Cleaning Fluid** are flammable. Do not expose to naked flame or other sources of ignition.

FLASHPOINT

SpECtop SRE500	>150°C
SpECtop Primer F1	>60°C
SpECtop Primer FX	>150°C
SpECtop Cleaning Fluid	>40°C
SpECtop UV	>40°C

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